

## **IN THE CLAIMS**

This listing of the claim will replace all prior versions and listings of claim in the present application.

### **Listing of Claims**

Claims 1-20 (canceled).

21. (currently amended) A data transmission method for transmitting information data containing additional information data therewith, said data transmission method comprising the steps performed at a transmitter side of:

preparing a data frame of said information data into which the additional information data is to be embedded;

embedding said additional information data plural times into said data frame, as an electronic watermark, repetitively and separately at different positions in said data frame; and

transmitting said data frame of the information data embedded at different positions in said data frame with the repetitive and separate additional information data.

22. (currently amended) A data transmission method as claimed in Claim 21, further comprising the steps performed at a receiver side of:

receiving the transmitted data frames of information data embedded at different positions in said data frame with the repetitive and separate additional information data therein;

detecting the repetitive and separate additional information data  
embedded at different positions in said data frame from said transmitted data  
frames of information data; and

determining said additional information data based on repetitiveness of  
the additional information data detected.

23. (currently amended) A data transmission method as  
claimed in Claim 22, wherein said determining step includes a step of:

determining said additional information data based on a majority rule of  
the repetitive and separate additional information data embedded ~~into~~ at  
different positions said data frame.

24. (previously presented) A data transmission method as  
claimed in Claim 21, wherein said information data includes at least one of  
video data, audio data and text data.

25. (previously presented) A data transmission method as  
claimed in Claim 22, wherein said information data includes at least one of  
video data, audio data and text data.

26. (currently amended) A data transmission apparatus for  
transmitting information data containing additional information data therewith,  
comprising:

first means for preparing a data frame of said information data into  
which the additional information data is to be embedded;

second means for preparing said additional information data in accordance with a predetermined conversion table;

third means for embedding said additional information data, as an electronic watermark, in the first means by plural times into the data frame, repetitively and separately at different positions in said data frame; and

fourth means for transmitting the information data embedded at different positions in said data frame with the repetitive and separate additional data therein.

27. (currently amended) A data transmission apparatus as claimed in Claim 26, wherein said fourth means comprises:

means for recording the information data embedded at different positions in said data frame with the repetitive and separate additional information data onto an optical information recording medium.

28. (currently amended) A data reproducing apparatus for reproducing the transmitted information data transmitted by the data transmitting apparatus as claimed in Claim 25, said data reproducing apparatus comprising:

first means for receiving the transmitted said data frame of information data embedded at different positions in said data frame with the repetitive and separate additional information;

second means for detecting the repetitive and separate additional information data which are embedded at different positions in said data frame of with the information data received; and

third means for determining said embedded additional information data based on a basis of repetitiveness of the additional information data detected.

29. (currently amended) A data reproducing apparatus as claimed in the claim 28, wherein said first means comprises:

means for reproducing the information data embedded at different positions in said data frame with the repetitive and separate additional information data from an optical information recording medium.

30. (currently amended) An information recording medium for recording data therein, comprising:

information data being reproducible in the form of a data frame; and  
additional data embedded, as an electronic watermark by plural times into said information data of said data frame, repetitively and separately at different positions in said data frame.

31. (previously presented) An information recording medium as claimed in claim 30, wherein information relating to a repetition number of the embedded additional data is recorded into a part of said information recording medium.